

0570
1018

J



3

OIPE

RAW SEQUENCE LISTING

DATE: 10/29/2002

PATENT APPLICATION: US/10/092,411A

TIME: 18:58:38

Input Set : N:\Crif4\10242002\J092411.raw

Output Set: N:\CRF4\10292002\J092411A.raw

1 <110> APPLICANT: Lynn Doucette-Stamm et al
2 <120> TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
STAPHYLOCOCCUS

3 EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS

4 <130> FILE REFERENCE: 032796-101

5 <140> CURRENT APPLICATION NUMBER: US/10/092,411A

6 <141> CURRENT FILING DATE: 2002-03-07

7 <150> PRIOR APPLICATION NUMBER: US 09/134,001

8 <151> PRIOR FILING DATE: 1998-08-13

9 <150> PRIOR APPLICATION NUMBER: US 60/064,964

10 <151> PRIOR FILING DATE: 1997-11-08

11 <150> PRIOR APPLICATION NUMBER: US 60/055,779

12 <151> PRIOR FILING DATE: 1997-08-14

13 <160> NUMBER OF SEQ ID NOS: 5676

15 <210> SEQ ID NO: 1

16 <211> LENGTH: 204

17 <212> TYPE: DNA

18 <213> ORGANISM: Staphylococcus epidermidis

19 <400> SEQUENCE: 1

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21	aacaataaac acaatttcca tcataataaa ttattggcat gtgtatacac tcctttttca	120
22	ttgcttaatt atttatattc ccatttaggt ataataaata aacctatttt tctcaatttt	180
23	aactctttta gaattacgca ttga	204

25 <210> SEQ ID NO: 2

26 <211> LENGTH: 342

27 <212> TYPE: DNA

28 <213> ORGANISM: Staphylococcus epidermidis

29 <400> SEQUENCE: 2

30	tttttattaa acataaaaaga ggtgaaatca atgctagaat ttagaaatgt gtataaatct	60
31	tttaaaaaaa aagaaatatt atgtgatggt aattacaaat tatctgctgg agaaaagggt	120
32	ggtcttatag gttctaattg gtctggaaaa tcaacattaa tgaaacttat agctaaaact	180
33	caattaccat ctaaaggaaa tgtttatttg aacaatatag atatacataa atctcacaat	240
34	atgataaaag atttttcttt catgatagga caaatatatt atcctgagtt aaatgcaaga	300
35	acaaatattg aaaattacct aaaaattaat aataagaatt ag	342

37 <210> SEQ ID NO: 3

38 <211> LENGTH: 381

39 <212> TYPE: DNA

40 <213> ORGANISM: Staphylococcus epidermidis

41 <400> SEQUENCE: 3

42	ataaacctat ttttctcaat tttaactctt ttagaattac gcattgatgt ttacttggca	60
43	aattttattaa ttattttagt cccatctatt acatcagcta tcttaattat ttacacttca	120
44	aaaatgaaat tatatttatg gttaaattga atttcaaacc taatttttta cattatttat	180
45	agtaaataata tcatgcatct agatggttat ctatcctata tcgagagggc gcaaatcaat	240
46	aatagtgata tagaaattaa aatatctcca aatatgcttg aattatctca gattatcttt	300

ENTERED

ppr 6-7

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Input Set : N:\Cr4\10242002\J092411.raw

Output Set: N:\CRF4\10292002\J092411A.raw

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47      ttatttttttg tttattttaat acctcaaagtg attgtagttt ttattaaaca taaaagaggt      360
48      gaaatcaatg ctagaattta g      381
50 <210> SEQ ID NO: 4
51 <211> LENGTH: 198
52 <212> TYPE: DNA
53 <213> ORGANISM: Staphylococcus epidermidis
54 <220> FEATURE:
55 <221> NAME/KEY: unsure
56 <222> LOCATION: (38),(46),(66),(147),(161)
57 <223> OTHER INFORMATION: Identity of nucleotide at the above locations are unknown.
58 <400> SEQUENCE: 4
W--> 59      gcgcatacaac gcggtggcgc acggcgcggg gtggccantg tggtantggc cgcaacaggc      60
W--> 60      atccancaag ttgccgctgc cgcaaaggca aatggatgta ctcatgggta ccaccaatac      120
W--> 61      ttctcgaaat ttccgggtt ggccanaaa cgggcattca nccaatccgg cactgtttg      180
62      tattcaagca gatcgtag      198
64 <210> SEQ ID NO: 5
65 <211> LENGTH: 549
66 <212> TYPE: DNA
67 <213> ORGANISM: Staphylococcus epidermidis
68 <220> FEATURE:
69 <221> NAME/KEY: unsure
70 <222> LOCATION: (23),(37),(118),(138),(146),(189),(233)
71 <223> OTHER INFORMATION: Identity of nucleotide at the above locations are unknown.
72 <400> SEQUENCE: 5
W--> 73      atacaaacaa gtgccggatt ggntgaatgc ccgtttntgg gccaacccgg aaaatttcga      60
W--> 74      gaagtattgg tggtaaccat gagtacatcc atttgccttt gcggcagcgg caacttgntg      120
W--> 75      gatgcctgtt gcggccanta ccacantggc caccgcgcgc cgtgcgccac cgcgttgatg      180
W--> 76      cgctcacgnt acagcgccta tgtctggggg ctggtggatt atctgggtgc cantacgcta      240
77      ccggcacaac agaacggcct cgaccgtgat gccatcgggg cctggagcgc gcaaagcacc      300
78      tggctcggcc tggaagtgga aagctccgag gtgtttggtg ggcagccgga acatgccttt      360
79      gtcactttta ccgcacgctg gcatgacagc accggcgaac acagccaccg cgaacagttg      420
80      tctttcgtac agaacgatgg gcgttggtac tttattgatc ctacggtgga ggtgaaggcc      480
81      gggcgtaatg atgcctgcct gtgcggcagt gggcagaagt tcaagaagtg ctgttccagt      540
82      tacctgtaa      549
84 <210> SEQ ID NO: 6
85 <211> LENGTH: 243
86 <212> TYPE: DNA
87 <213> ORGANISM: Staphylococcus epidermidis
88 <220> FEATURE:
89 <221> NAME/KEY: unsure
90 <222> LOCATION: (11),(92),(112),(120),(163),(207)
91 <223> OTHER INFORMATION: Identity of nucleotide at the above locations are unknown.
92 <400> SEQUENCE: 6
W--> 93      atgcccgttt ntgggccaac ccggaaaatt tcgagaagta ttggtggtaa ccatgagtag      60
W--> 94      atccatttgc ctttgcggca gcggcaactt gntggatgcc tgttgcggcc antaccacan      120
W--> 95      tggccacccc gcgcggtgcg ccaccgcgtt gatgcgtca cgtacagcg cctatgtgct      180
W--> 96      gggcgctggtg gattatctgg tggccantac gctaccggca caacagaacg gcctcgaccg      240
97      tga      243
99 <210> SEQ ID NO: 7

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Input Set : N:\Cr4\10242002\J092411.raw

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100 <211> LENGTH: 240
101 <212> TYPE: DNA
102 <213> ORGANISM: Staphylococcus epidermidis
103 <400> SEQUENCE: 7
104      tcgatccagg cgttgagcgg cgacgggtgtg gcgttgccatt acctgctgga ggcgtacaag      60
105      catttgaagg cgattgcctt ggcgggtgag gcgaagcagt tgctgcaggt gctcaagctg      120
106      gacgcggatg cggggttgat tgctggcggg gatgccaagg cgttgaaggc gtttattgcg      180
107      gcgattgccc agcatcgggt ctgggaacgg gagcctatgg ccaaggcggg tccggcttaa      240
109 <210> SEQ ID NO: 8
110 <211> LENGTH: 249
111 <212> TYPE: DNA
112 <213> ORGANISM: Staphylococcus epidermidis
113 <220> FEATURE:
114 <221> NAME/KEY: unsure
115 <222> LOCATION: (2),(147)
116 <223> OTHER INFORMATION: Identity of nucleotide at the above locations are unknown.
117 <400> SEQUENCE: 8
W--> 118      gntggccacc gccgaggacc aactcgccgc gttgcaggcc caatcgcccg acgacccggc      60
119      actcgagccg tatcagcgcc aactggccga ggctatttg cagcgcagcc agatcgctct      120
W--> 120      gcaaaaaggc gatgtcaacg ccgccgntac ggccttgagc cgcgcccggg cgttgatgcc      180
121      caaggctccc gcgctgaccg gtgggggtcaa caacgccatc gccacgcgc gcaaggccga      240
122      gctggataa
124 <210> SEQ ID NO: 9
125 <211> LENGTH: 735
126 <212> TYPE: DNA
127 <213> ORGANISM: Staphylococcus epidermidis
128 <220> FEATURE:
129 <221> NAME/KEY: unsure
130 <222> LOCATION: (341),(486),(501),(513),(709)
131 <223> OTHER INFORMATION: Identity of nucleotide at the above locations are unknown.
132 <400> SEQUENCE: 9
133      atcaatccgc ttcaccggtt tagtcagcag cgtgttcagc cacgggtaat cctcgggtgcg      60
134      cggcacctgg atgctcacat cacactggta attcaccaca tcggtggcga tggcatccag      120
135      ttgatggcgc aattcctgga tatccgtgag gttcagcgcc accgtggtgc tttcggcggt      180
136      ggggtcgatg accttggtcg gcggttggc ttcggcagct ttcagggcgg cttcggcttt      240
137      atccagctcg gccttgccgc cgtgggcgat ggcgttgtg accccaccgg tcagcgcggg      300
W--> 138      agccttgggc atcaacgccc gggcgcggt caaggccgta ncggcgggcg tgacatcgcc      360
139      tttttgcagg acgatctggc tgcgctgcaa ataggcctcg gccagttggc gctgatacgg      420
140      ctcgagtgcc gggtagtcgg gcgattgggc ctgcaacgcg gcgagttggt cctcggcggt      480
W--> 141      ggccanctca ctgctggcca ngttttgttc canctgtgca atggccacag cgcgcgcac      540
142      ccgcacctcc ggggccaacg ggcgggggtg ttttcaggc gccaccacc agggaaaatg      600
143      ccggcaggaa caaataaacg gaggttaacg gcttcattcc tgccactctc taattgcgcc      660
W--> 144      aaaagcgagc aagtctaccc ccctccgacg ggggcaggga caaactcanc cataaacaat      720
145      tgcggggggc ggtga
147 <210> SEQ ID NO: 10
148 <211> LENGTH: 267
149 <212> TYPE: DNA
150 <213> ORGANISM: Staphylococcus epidermidis
151 <400> SEQUENCE: 10

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Input Set : N:\Cr4\10242002\J092411.raw

Output Set: N:\CRF4\10292002\J092411A.raw

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152      ggcgaagcag ttgctgcagg tgctcaagct ggacgcggat gcgggggttg ttgtcggcgg      60
153      ggatgccaaag gcgttgaagg cgtttattgc ggcgattgcc cagcatcggg tctgggaacg      120
154      ggagcctatg gccaaggcgg ttccggctta agtcattggg tgtttgatag ggcgccatcg      180
155      cgggcaagtc gaatcgtcgc actgcccgcg attggcttca gtcggcttta cgcggaatca      240
156      acacaacctg cgccggaata tgctga                                     267
158 <210> SEQ ID NO: 11
159 <211> LENGTH: 237
160 <212> TYPE: DNA
161 <213> ORGANISM: Staphylococcus epidermidis
162 <400> SEQUENCE: 11
163      agacggatTTT gcaaATcgca ggTTTggaaa aaaccaggcg tcggtgatga aaagccgtac      60
164      atcagcgTcg caATTTcaga acgcacagTg gggacaaaaa gcacctctgg ctctgatgaa      120
165      cagcTgcac aatcgTcgTc atcgcttca agcgaatccc attcgTcaca acaggcacat      180
166      cagcTcaac cccaacagga tcaacacca agcggagtag caggcttcaa tttttga      237
168 <210> SEQ ID NO: 12
169 <211> LENGTH: 324
170 <212> TYPE: DNA
171 <213> ORGANISM: Staphylococcus epidermidis
172 <400> SEQUENCE: 12
173      aaaaTgaatt tagaaaactt aacaactgaa cgtaaaaaatg aaaatacaat gggcttaaat      60
174      gagatgagTg tcaaagaagc tttacaaaaa atgaatcaag aagacaaaaa agttgcaatg      120
175      gcagtgggtc aagaattagc agccattgaa ccagtggtag aagccatcat caaaagcttc      180
176      aatcaaggcg gccgcttgat ctacatgggc gctggtacaa gtggTcggtt aggtgtctta      240
177      aatgcagccg aatgcgtacc aactttTggc gtcaagccaa agatggTtca aggccccatc      300
178      cgctggTggg ccaaaaacca ttga                                     324
180 <210> SEQ ID NO: 13
181 <211> LENGTH: 888
182 <212> TYPE: DNA
183 <213> ORGANISM: Staphylococcus epidermidis
184 <220> FEATURE:
185 <221> NAME/KEY: unsure
186 <222> LOCATION: (505)
187 <223> OTHER INFORMATION: Identity of nucleotide at the above locations are unknown.
188 <400> SEQUENCE: 13
189      cctcggttta gattcggtc gagtcgacct ttaatcgagt tgggcgtaac tggccttcgg      60
190      atggactacg gcattacgat agaacaaatg gctcatgctt cacataagat tgatatagga      120
191      ttgaatgcta gtaccattac actggaagaa gtggctgagt taaaggctca tcaagcggac      180
192      ttttctcgct tagaagcttg gcataattat tatccaagac ctgaaaccgg cattggaaca      240
193      acatTTTTta atgaaaagaa ccgctggctt aaagaattag gcttacaagt ttttactttt      300
194      gtgccaggag atgggcaaac aagaggccca atTTTTgctg gtttaccacac attagaaaaa      360
195      catcgggggc aaaatccttt cgccgctgcc gttggtttga tggtgatcc ttatgtcgat      420
196      gctgtttata ttggtgatcc tacaattagt gagcgaacca tggtcaatt tggttattat      480
W--> 197      caccAAacca atcaATTTct gttanaagta gcacctagcg agagccgcta tttgaagcga      540
198      atactTggga ctcatacca tCGTTtagat gctgcaagag atgtttTgcg aagtgaatta      600
199      tcaaaaacga gtgaaatgtt cagaaaagat gaaattgcaa cgattgagtc agagcagact      660
200      gaagcacgTc cagtgggaac cgtaacgatt gataatgaaa aatatggTcg ctatatggga      720
201      gaaattcaag tcacactTgt ggactTgcg aaagatgaaa aagtcaatac gattacacga      780
202      attattgaaa aagatcaaac gatattgcg ttaatcaagg caggcaatca atttacgcta      840
203      gtcacggaag gaacgataga aaatgaattt agaaaactta acaactga                                     888

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Input Set : N:\Cr4\10242002\J092411.raw

Output Set: N:\CRF4\10292002\J092411A.raw

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205 <210> SEQ ID NO: 14
206 <211> LENGTH: 228
207 <212> TYPE: DNA
208 <213> ORGANISM: Staphylococcus epidermidis
209 <400> SEQUENCE: 14
210      cttgccacaa cggcagcaat ggcgcgccgt gacacagtgc ttccagttgg gcgaagaacc      60
211      gtgccatgtc ttctaggttg ctcgggccgt gatcttcacg cagcagcccg gccaggccct      120
212      gttgcagcat ttgccgccag tgctgcagtt gctcggcaaa gtcggccggt gcccgtctgg      180
213      ccagatcgtc atcgggcagc ggggcgatca ccagcagttg cgggctga      228
215 <210> SEQ ID NO: 15
216 <211> LENGTH: 186
217 <212> TYPE: DNA
218 <213> ORGANISM: Staphylococcus epidermidis
219 <400> SEQUENCE: 15
220      cccggcattg cgcagcctgc tcaagagctg cgacaagggtg ttcaagcgcc tgcaaaccce      60
221      gggcatcgaa gggatcaaca gcccggcacc ggaccagttg ctcaagagcc tgctgtttta      120
222      tatcgccaaa gtcacccggc cgacgcgcgc catgcaaagc ctcaaggaac gctacggcct      180
223      ggatga      186
225 <210> SEQ ID NO: 16
226 <211> LENGTH: 1368
227 <212> TYPE: DNA
228 <213> ORGANISM: Staphylococcus epidermidis
229 <400> SEQUENCE: 16
230      gaagaaaaag caagagagac gaagagagaa aaggaaaggg agaggaacca gccagaaaaga      60
231      gaaccagaaa aaaggacaag aaagaagaga ggaaaccgag aagaacagat gacgaaaacg      120
232      gaaagaagaa ccgggcagag cgaccaagag cgagacaagg gaaccagaga agaggagaga      180
233      agagaaaaaa caagaaggaa aaaagcgggg aagagaaaaga gggcgaagaa agcaaaagag      240
234      gaaaaaagaa cgaaaggcca aaaaagagaa gaggggagag agcaggcagg gggggaggcc      300
235      cccaaaatgg gattctcact tttaaccca ttcaagaagg gagtctgatt ggttgacggg      360
236      cacgaaaacg tcgccctaga atgggtcaag ggcgagatcg cggacaccgt gaagcaggcc      420
237      cgtgcggcaa tggacgcctt tgcggacgac gccagcgagc aagccctcgc gcagtgcgtg      480
238      gagggcattc atcaggtcca cggcgccctg cagatggtcg agttctacgg cgcggcactg      540
239      ctgcccgaag aaatggagca cctggcccag gccatgcaag ccgggcacgt cagccagcgc      600
240      gaagaaggca tccgcctgct gcaacaggcc ctgcggcaac tgccgttgta cctggaccgt      660
241      gtgcacagcg cccggcgaga cctgcccctg gtagtgttgc cgctgctcaa cgacctgcgc      720
242      agcgtgcacg gcaaaagcct gctctcgga accagcctgt tcagcccga actgctggtg      780
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244      ctgcagcact ggcggcaaat gctgcaacag ggctggccg ggctgctgcg tgaagatcac      900
245      ggcccgagca acctagaaga catggcacgg ttcttcgccc aactggaagc actgtgtcac      960
246      ggcgcgccat tgctgccgtt gtggcaagtc acctcggcgc tggccgaagg catgctcact      1020
247      ggcgtgatcg ccaatagccc ggcattgcgc agcctgctca agagctgcga caaggtgttc      1080
248      aagcgcctgc aaaccaggg catcgaagg atcaacagcc cggcacccga ccagttgtct      1140
249      aagagcctgc tgttttatat cgccaaagtc acccgccga cgccgcgcac gcaaagcctc      1200
250      aaggaacgct acggcctgga tgaagccttg cccgacagca ccgtggctga tgccgagcgc      1260
251      gcgcgcctgg ccgggcccga ccgcaatgcc atgggctcgg tgctcggcgc gttgtgtgag      1320
252      gagttggtgc gggtaagga acgctggac ctgtttgtgc gcgactct      1368
254 <210> SEQ ID NO: 17
255 <211> LENGTH: 444
256 <212> TYPE: DNA

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RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; N Pos. 38,46,66,147,161
Seq#:5; N Pos. 23,37,118,138,146,189,233
Seq#:6; N Pos. 11,92,112,120,163,207
Seq#:8; N Pos. 2,147
Seq#:9; N Pos. 341,486,501,513,709
Seq#:13; N Pos. 505
Seq#:24; N Pos. 311
Seq#:26; N Pos. 11
Seq#:28; N Pos. 45,128
Seq#:29; N Pos. 6,287,366,399
Seq#:30; N Pos. 471
Seq#:31; N Pos. 46,340,373,452
Seq#:36; N Pos. 367
Seq#:48; N Pos. 1284
Seq#:183; N Pos. 157
Seq#:186; N Pos. 7
Seq#:193; N Pos. 1071
Seq#:273; N Pos. 174
Seq#:281; N Pos. 620
Seq#:585; N Pos. 6
Seq#:782; N Pos. 118
Seq#:840; N Pos. 298
Seq#:850; N Pos. 32
Seq#:863; N Pos. 326,404,405,428
Seq#:988; N Pos. 552,600
Seq#:1035; N Pos. 25,28,46,60
Seq#:1068; N Pos. 160,174,192,195
Seq#:1077; N Pos. 21,23,52,53
Seq#:1232; N Pos. 16
Seq#:1277; N Pos. 20,22,32
Seq#:1405; N Pos. 849
Seq#:1441; N Pos. 1060
Seq#:1710; N Pos. 52
Seq#:1740; N Pos. 16,17
Seq#:1798; N Pos. 124
Seq#:1867; N Pos. 110
Seq#:1964; N Pos. 32
Seq#:2134; N Pos. 502
Seq#:2211; N Pos. 498,499,500,501,502,503,504,505,506,507,508,509,510,511
Seq#:2211; N Pos. 512,513,514,515,516,517,518,519
Seq#:2289; N Pos. 616
Seq#:2412; N Pos. 12,13,14,15,16,27,36
Seq#:2648; N Pos. 22
Seq#:2725; N Pos. 40

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Seq#:2749; N Pos. 174
 Seq#:2763; N Pos. 57
 Seq#:2799; N Pos. 273
 Seq#:2823; N Pos. 106
 Seq#:2841; Xaa Pos. 13,16,22,49,54
 Seq#:2846; Xaa Pos. 114,162,167,171,237
 Seq#:2850; Xaa Pos. 169
 Seq#:2861; Xaa Pos. 104
 Seq#:2866; Xaa Pos. 2,96,122,133
 Seq#:2867; Xaa Pos. 157
 Seq#:3118; Xaa Pos. 207
 Seq#:3700; Xaa Pos. 109,135,143
 Seq#:3905; Xaa Pos. 54,65
 Seq#:4069; Xaa Pos. 6
 Seq#:4547; Xaa Pos. 18
 Seq#:4635; Xaa Pos. 42
 Seq#:5048; Xaa Pos. 167,168,169,170,171,172,173
 Seq#:5126; Xaa Pos. 206

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 2
 Seq#:4; Line(s) 57
 Seq#:5; Line(s) 71
 Seq#:6; Line(s) 91
 Seq#:8; Line(s) 116
 Seq#:9; Line(s) 131
 Seq#:13; Line(s) 187
 Seq#:24; Line(s) 344
 Seq#:26; Line(s) 379
 Seq#:28; Line(s) 415
 Seq#:29; Line(s) 429
 Seq#:30; Line(s) 449
 Seq#:31; Line(s) 468
 Seq#:36; Line(s) 561
 Seq#:48; Line(s) 732
 Seq#:183; Line(s) 3137
 Seq#:186; Line(s) 3196
 Seq#:193; Line(s) 3286
 Seq#:273; Line(s) 4698
 Seq#:281; Line(s) 4862
 Seq#:322; Line(s) 5810,5811,5812,5813,5814,5815,5816,5817,5818,5819,5820
 Seq#:322; Line(s) 5821,5822,5823,5824,5825,5826,5827,5828,5829,5830,5831
 Seq#:322; Line(s) 5832,5833,5834,5835,5836,5837,5838,5839,5840,5841,5842
 Seq#:322; Line(s) 5843,5844,5845,5846,5847,5848,5849,5850,5851,5852,5853
 Seq#:322; Line(s) 5854,5855,5856,5857,5858,5859,5860,5861,5862,5863,5864
 Seq#:322; Line(s) 5865,5866,5867,5868,5869,5870,5871,5872,5873,5874,5875